

DOCUMENT RESUME

ED 313 958

HE 023 063

AUTHOR Spencer, Melinda G.; And Others
 TITLE Faculty Satisfaction and Motivation: How Faculty Perceive Themselves in the Institutional Environment. ASHE Annual Meeting Paper.
 INSTITUTION National Center for Research to Improve Postsecondary Teaching and Learning, Ann Arbor, MI.
 SPONS AGENCY Office of Educational Research and Improvement (ED), Washington, DC.
 PUB DATE Nov 89
 GRANT G008690010
 NOTE 30p.; Paper presented at the Annual Meeting of the Association for the Study of Higher Education (Atlanta, GA, November 2-5, 1989).
 PUB TYPE Speeches/Conference Papers (150) -- Reports -- Research/Technical (143)
 EDRS PRICE MF01/PC02 Plus Postage.
 DESCRIPTORS Administrative Policy; *College Environment; *College Faculty; Community Colleges; *Faculty College Relationship; Higher Education; Institutional Characteristics; *Job Satisfaction; *Motivation; *Organizational Climate; Resources; Women Faculty
 IDENTIFIERS *ASHE Annual Meeting

ABSTRACT

The effect of the institutional culture on faculty commitment, motivation, and satisfaction when filtered through other factors in the organizational environment was investigated. Preliminary findings from research on "The Organizational Context for Teaching and Learning" at the National Center for Research to Improve Postsecondary Teaching and Learning at the University of Michigan are presented. Data were collected by a survey with 164 items distributed over nine topical areas: academic culture; academic innovation; academic workplace; academic management climate; faculty motivation and effort; faculty involvement; academic administrative support; resource availability; and personal data. It was given to full-time administrators and faculty at 10 institutions. Thirty paths of interest were identified as a result. The most prominent faculty characteristic affecting perceptions of satisfaction, motivation, and commitment was gender. Women consistently viewed organizational environment more positively than men, and so were more satisfied and motivated. The community colleges in the study were distinct from the liberal arts and comprehensive institutions in the way that culture and climate interacted to affect personal satisfaction, commitment, and motivation to undergraduate education. The fact that governance style was a significant indicator in predicting environmental characteristics reflects the overall impact of governance style on institutional climate, personal satisfaction and motivation. Tables and figures are included. Contains 35 references. (SM)

 * Reproductions supplied by EDRS are the best that can be made *
 * from the original document. *

FACULTY SATISFACTION AND MOTIVATION: How Faculty Perceive Themselves in the Institutional Environment

"PERMISSION TO REPRODUCE THIS
MATERIAL HAS BEEN GRANTED BY

ASHE

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

☒ This document has been reproduced as
received from the person or organization
originating it.

☐ Minor changes have been made to improve
reproduction quality.

• Points of view or opinions stated in this docu-
ment do not necessarily represent official
OERI position or policy.

Melinda G. Spencer, Research Assistant
Theodore H. White, Research Assistant
Marvin W. Peterson, Project Director
Kim S. Cameron, Research Faculty

University of Michigan
Ann Arbor, Michigan 48109

Do not quote or publish without permission.

The research reported in this paper is part of the Research Program on The Organizational Context for Teaching and Learning in the National Center for Research to Improve Postsecondary Teaching and Learning (NCRIPAL). The research is supported by a grant from the Office of Educational Research and Improvement (OERI), U.S. Department of Education (ED), to the University of Michigan (Grant number G008690010). The opinions expressed herein do not necessarily reflect the position or policy of the OERI/ED or the Regents of The University of Michigan, and no official endorsement should be inferred.



ASSOCIATION
FOR THE
STUDY OF
HIGHER EDUCATION

Texas A&M University,
Department of Educational
Administration
College Station, TX 77843
(409) 845-0393

This paper was presented at the annual meeting of the Association for the Study of Higher Education held at the Ritz-Carlton, Buckhead in Atlanta, Georgia, November 2-5, 1989. This paper was reviewed by ASHE and was judged to be of high quality and of interest to others concerned with the research of higher education. It has therefore been selected to be included in the ERIC collection of ASHE conference papers.

14th Annual Conference • November 2-5, 1989

Ritz-Carlton, Buckhead • Atlanta, Georgia

DRAFT- NOT FOR DISTRIBUTION

**"FACULTY SATISFACTION AND MOTIVATION:
How Faculty Perceive Themselves in the
Institutional Environment"**

OBJECTIVES

Studies on the role of organizational climate in determining worker perceptions of job satisfaction have yielded mixed results. Although there is an underlying assumption that organizational factors relate to job satisfaction, motivation, and commitment in the workplace, and that motivated workers are more productive and therefore more effective, Blackburn and others (1986), point out that researchers have failed to demonstrate a consistent relationship between organizational factors and employee job perceptions. Studies conducted by Herzberg, et al., (1959) indicate that organizational climate issues are actually hygiene factors. However, these results are far from conclusive.

In this paper, we are interested in investigating the effect of the institutional culture on faculty commitment, motivation, and satisfaction when filtered through other factors in the organizational environment, such as academic innovation, academic workplace, academic management practices, resource availability, and faculty climate. This study represents preliminary findings from the current research on "The Organizational Context for Teaching and Learning" at the National Center for Research to Improve Postsecondary Teaching and Learning (NCRIPTAL) at the University of Michigan.

THEORETICAL FRAMEWORK

Colleges and universities have been criticized for a lack of effectiveness and efficiency in providing quality education to students (Astin, 1985; Bowen, 1977; Boyer, 1987). Higher education administrators and researchers have countered these attacks by presenting alternative criteria by which to evaluate their effectiveness (Blai, 1975; Brewer and Brewer, 1970; Issler, 1983; Feldman, 1976). These studies suggest that such factors as student perceptions of faculty expertise, demonstrated interest in the subject matter, enthusiasm for teaching, and use of various teaching resources may be useful as alternative measures of teacher effectiveness. This argument illustrates that despite the centrality of teaching and learning to the mission of higher education, there is no universally agreed-upon measure for determining whether institutions are able to effectively accomplish this mission (Kennedy and Bush, 1976; Good and Brophy, 1986; Peterson, 1988).

A major reason for this problem is the inability of educational researchers to develop operational definitions for effective teaching and learning (Feldman, 1988). Without a clear understanding of what constitutes competent teaching and efficacious learning it is difficult to determine standard criteria upon which to assess these activities. Cameron (1985) suggests that one reason for this difficulty is that "effectiveness" is a construct; a mental image, formulated individually, that does not translate easily into words. This phenomenon is often expressed as, "I can't tell you what good teaching/learning is, but I know it when I see it." Thus, effective

teaching and learning have more commonly been evaluated in terms of achievement-oriented quantitative outcomes, such as productivity levels and publication rates, and products, including tests and other demonstrations of skill acquisition.

Another argument that has been put forth to explain the difficulty in conducting research on teaching and learning is that learning is an intrinsic state; thus, it is dependent upon the learner's internal motivation. In this context, quality teaching is defined as those actions that facilitate or encourage the student's ability to learn (Czikszenmihalyi, 1982; Deci and Ryan, 1982). The extent to which teachers are able to incite and foster their students' motivation to learn is a measure of teaching effectiveness. Deci and Ryan (1982) and Czikszenmihalyi (1982) further suggest that those teachers who are themselves motivated to teach tend to be most successful in eliciting the same feelings in their students. "Higher education succeeds or fails in terms of motivation, not cognitive transfer of information," (Czikszenmihalyi, 1982, p. 15). In this light, faculty motivation and commitment to undergraduate education and satisfaction with teaching are appropriate outcomes for investigation.

Less attention has been paid to the qualitative side of teaching and learning as they relate to the institutional culture. Dill (1982) states that culture "is the shared beliefs, ideologies, or dogma of a group which impel individuals to action and give their action meaning," (p. 307). Peterson and others (1986) define culture as "the deeply embedded shared values, beliefs, or ideologies that participants have about their organizations." Dominant cultures may

change, but only slowly over time. The institutional culture has been shown to be a powerful influence in determining successful management strategies (Chaffee and Tierney, 1988). Peterson and Blackburn (1985) include institutional culture as an important underlying dimension of organizational effectiveness and consider faculty a key indicator.

Climate is related to culture, but they are not interchangeable terms. Climate is defined by Ferris and Gilmore (1984) as "individual perceptions of the favorability of the work context." Others have defined it as "a characteristic of organizations which is reflected in the descriptions employees make of the policies, practices, and conditions which exist in the work environment," (Schnake, 1983); "a broad class of organizational and perceptual variables that reflect individual - organizational interactions," (Glick, 1985); and "a visible manifestation of culture which is a step closer to reality than culture," (Ashforth, 1985). In the context of our study, organizational climate may be seen as an extension of institutional culture, but the shared values and beliefs expressed as climate are superficial when compared to those that are deeply imbedded.

Peterson (1988) identified three types of organizational climate that operate simultaneously in the educational environment: the objective, or observable, climate; the perceived climate, and the psychological, or felt, climate. This study focuses on elements of the perceived and psychological climates.

Based on these studies of culture, climate, and faculty outcomes the following research questions were explored:

Which institutional, faculty, and/or internal environmental characteristics affect faculty self-perceptions of their satisfaction with teaching and their motivation and commitment to undergraduate education?

How do internal environmental characteristics mediate the effect of institutional and faculty characteristics on these faculty self-perceptions?

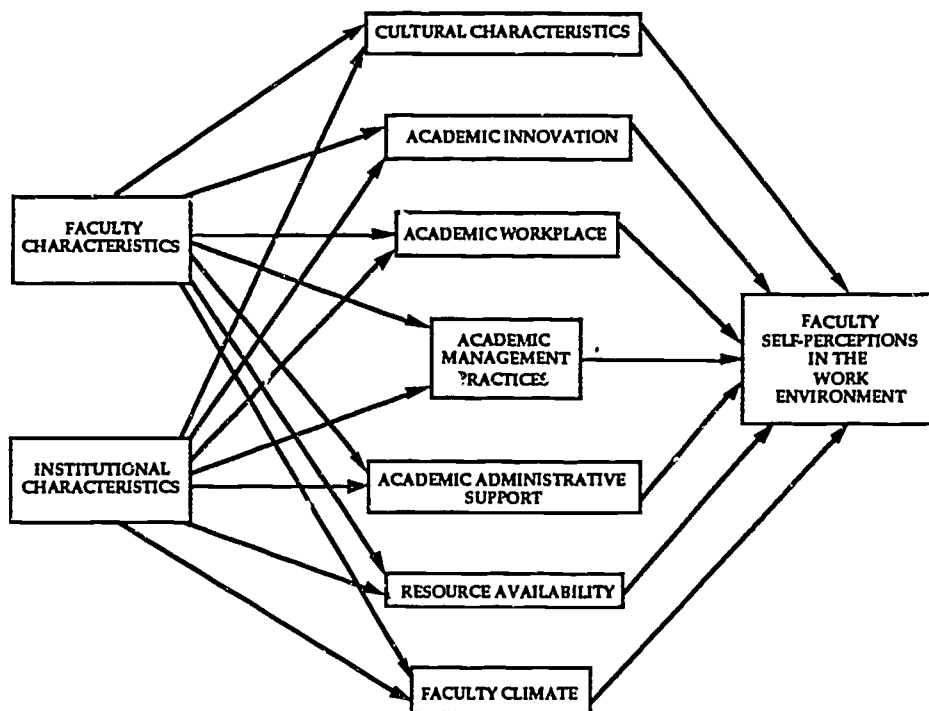
The goals of this investigation are to shed additional light on the relationship between institutional environment variables and faculty motivation, commitment, and satisfaction, and to provide new insights for administrators in managing their postsecondary institutions.

DEVELOPMENT OF THE THEORETICAL MODEL

The theoretical model guiding this particular study is based upon a five-year research project currently being conducted by Peterson and others through NCRIPAL. In investigating whether faculty perceptions of the institutional culture and organizational climate in which they are immersed have an impact upon their performance in the teaching and learning equation, we have chosen to examine the effects of these perceptions on faculty motivation and commitment, and faculty satisfaction.

Our model is shown below. Figure 2 is a complete model, including the factors comprising each domain, and is included in the appendix.

FIGURE 1: THEORETICAL MODEL FOR STUDY



Peterson, Spencer, and White, NCRIPTAL, 1989.

The causal path model incorporates and controls for the effects of variables representing faculty demographics, including age, gender, academic rank, discipline, and tenure status of the faculty respondents; and institutional characteristics, such as the type of institution, perceived governance style, and perceived purpose of the institution. The effect of these variables, filtered through the organizational and faculty climate dimensions, on the self-reported personal motivation, commitment, and satisfaction of faculty respondents is the focus of this analysis.

SAMPLE USED FOR THE DATA

The data used for this study are part of a set collected using the Organizational Climate for Teaching and Learning survey developed at NCRIPAL. The instrument was developed to provide corroborating data for site visit case studies, and when paired with the comprehensive case studies of the ten institutions that participated, the data set will yield its greatest benefit. This study is a "first cut" at this new data set.

The survey consists of 164 items distributed over nine topical areas:

- I. Academic Culture (35 items)
- II. Academic Innovation (5 Items)
- III. Academic Workplace (10 items)
- IV. Academic Management Climate (59 items)
- V. Faculty Motivation and Effort (14 items)
- VI. Faculty Involvement (14 items)
- VII. Academic Administrative Support (9 items)
- VIII. Resource Availability (11 items)
- IX. Personal Data (12 items)

The survey was given to full-time administrators (appointments greater the 50 percent) and full-time faculty at ten institutions. Three community colleges, three private liberal arts colleges, and four comprehensive universities were selected from a stratified random sample based on their willingness to participate in the survey and on-site visit, and on their commitment to undergraduate education. These criteria were determined as part of an earlier survey, the "Academic Management Practices Survey," which was mailed to the chief academic officer at each

institution of postsecondary education (non-proprietary) in the United States. An initial mailing of the "Organizational Climate Survey" was sent immediately following the research team's site visit; reminder postcards were sent out one week later. A second survey was mailed to nonrespondents approximately two weeks later. The overall response rate was 50.0 percent. For this analysis, only faculty responses were used (n=1123).

METHODOLOGY

All statistical analyses were conducted using SPSSx. The nature of the data being used was such that few variables stood out as being representative for the various elements in our model; thus, we created factors from the variables in the survey. This procedure produced more manageable data and provided more reliable measures upon which to base our conclusions. The results of the factor analysis nearly matched our survey categories. We made the decision to follow our categories strictly, thereby preserving the inherent logic upon which the survey and the model are based.

Because many of the factors were negatively skewed, transformations were performed to reduce skewness and the effect of outlier cases. After transformations were performed, all factors were converted to Z-scores. The results gave us factors that were normally distributed, with means of zero and standard deviations of one. Reliability tests proved the factors satisfactory. Table 1 in the appendix lists the factor reliabilities as well as the variables that make up each factor.

Path analyses were conducted in order to determine the direct and indirect effects of the exogenous variables on the outcome factors. Path analysis employs a series of simultaneous regressions. The first set of regressions involved the exogenous faculty characteristics (age, gender, tenure status, academic rank, and academic discipline) and institutional characteristics (institutional type, purpose, and governance style) regressed against the intervening factors. The second set of regressions, in which all variables and factors in the model were regressed against the outcome factor, was run twice, once for each of the two outcomes we were investigating: Self-reported faculty motivation and commitment to undergraduate education, and faculty personal satisfaction with undergraduate teaching efforts.

Direct paths were examined first. Indirect paths were then established by identifying those exogenous variables that significantly explained the intervening variables that in turn significantly explained the outcome variables. These indirect paths were calculated by multiplying the standardized partial regression coefficients (beta values) of the significant direct paths, exogenous to intervening and intervening to outcome.

We were most interested in results demonstrating indirect effects with signs opposite those of their direct effects. The importance of this result is in its implication for the institutional leader who may attempt to implement cultural changes over time with the intent of improving faculty morale. These actions may instead result in an erosion of morale if the indirect effects are

negative on the faculty outcomes. Those indirect effects with signs like those of their direct effects indicate that the effect in the indicated direction may be stronger than the direct effect alone would indicate.

RESULTS

A total of 28 separate regressions were carried out for this path analysis. In each case, the model proved to be significant (Significant $F = .0000$). In addition, as part of the final two regressions in which all exogenous and intervening variables were entered against the outcome factors, histograms were computed to check the distribution of the standardized residuals. This graph was roughly normal. Scatter plots and partial plots indicate that the distributions of the residuals were homoscedastic; no noticeable patterns emerged.

For the first outcome factor, "Personal Satisfaction with Teaching Undergraduate Education," 49.2% of the variance was explained in the final regression. Seven intervening factors proved to be significant predictors of this outcome: The characteristics of teamwork and market/competitive environments (CULTTEAM and CULTMRKT); emphasis on faculty selection, evaluation and reward based on undergraduate education (FACSEL); institutional support for undergraduate education (INSTSUPP); institutional facilities (INSTFCIL); and faculty evaluation of their peers in satisfaction with their teaching, and their peers' motivation and commitment to undergraduate education (INSTSATS and INSTMOTV). No exogenous

variables were significant on the outcome. However, each of the significant intervening variables was significantly explained (Significant $F = .0000$) by two or more exogenous variables (see Table 2).

On the second outcome factor, "Personal Motivation and Commitment to Undergraduate Education," the model explained 30.7% of the variance. Four intervening variables were significant: Professionalism in the academic workplace (ACADSETT); institutional support of undergraduate education (INSTSUPP); faculty involvement in student academic policy (FINSTUPL); and peer motivation and commitment to undergraduate education (INSTMOTV). Again, each of these intervening variables was significantly explained by two or more exogenous variables (see Table 3). In addition, the exogenous variable representing liberal arts colleges, "Institutional Type: Liberal Arts," was directly significant on this outcome factor ($p < .05$).

DISCUSSION

Based upon our criteria, we identified 30 paths of interest. As illustrated by Table 2 and Table 3 in the Appendix, a number of indirect paths strengthen the relationship between the exogenous variables and the outcomes. Institutional differences and differences in discipline are notable but not quantifiable, due to the nominal nature of these variables.

Points A1 to A7 discuss findings related to the "Personal Satisfaction with Teaching" outcomes listed in Table 2.. Points B1 to B4 discuss findings related to the second outcome factor, "Personal

Motivation and Commitment to Undergraduate Education," listed in Table 3.

(A1) The "Culture: Teamwork" factor has a negative effect on "Personal Satisfaction with Teaching." Karl Weick (1984), suggests that "actions that strengthen the community [of scholars] weaken the scholarship [and] actions that strengthen the scholarship weaken the community." Floyd (1985) points out that faculty participation may lead to lower faculty satisfaction if the participation is burdensome. According to these views, faculty required to spend time on committees and fulfilling other teamwork functions are apt to feel these activities interfere with their teaching.

Faculty identifying the purpose of their institutions as improving society or developing social consciousness, and those who see their mode of governance as either collegial or autonomous, view these relationships as positive to their satisfaction with teaching. However, these factors all have a significant positive effect on the Teamwork characteristic; thus, they have indirect negative consequences on satisfaction with teaching. For example, a leader may attempt to move the institutional culture toward a collegial style of governance in an attempt to improve faculty, and thereby institutional, morale. However, if these activities force faculty to participate in a teamwork environment, the result may be the opposite of what was intended.

(A2) "As might be expected, competitive environments were negatively related to Personal Satisfaction". After controlling for institutional and faculty characteristics, community colleges in our

study were less apt to be perceived as market driven (competitive) by their faculty. A look at the means for each of the institutions in our study shows that means for community colleges were highest for innovative (entrepreneurial) and teamwork environments. Apparently faculty within these institutions perceive themselves to be proactive rather than reactive in assessing community needs. Thus, the resulting indirect path reinforces community college faculty's "Personal Satisfaction".

As age increases, faculty are more likely to see the institutional environment as market-oriented. The negative indirect effect of age on satisfaction is counter to the positive direction of the direct path of age on satisfaction.

(A3) "Faculty Selection" represents the institutional emphasis on undergraduate teaching in matters relating to faculty selection, evaluation, and rewards (including promotion). It has a negative effect on personal satisfaction. Since administrators generally make these decisions, it may be, as Astin (1985) contends, that faculty view administrators with suspicion and contempt, and fear the loss of their autonomy. In addition, Eble (1983) points out that given "the inadequacy of the procedures for identifying best teachers", these awards may be "fomenters of discord".

An examination of the variables which make up this factor may explain the negative effect of community colleges on the intervening factor. Faculty at the community colleges in our sample may not see undergraduate education (teaching) as a factor in promotion, teaching ability may not be perceived as a basis for selection, merit

is not used in determining their salaries, and evaluation of teaching is often problematic.

Additionally, community colleges in our study have higher proportions of tenured to non-tenured faculty. Therefore, being tenured has a negative effect on the intervening factor as well. Also, since community colleges generally call their faculty "instructors", which we ranked at the low end of our scale, "Rank" had a positive effect on the intervening factor. As faculty rank ascends from instructor to professor, faculty are more likely to believe that faculty selection, evaluation, and reward are based on undergraduate educational efforts. This is in agreement with the result that faculty who see their institutions as being governed in the collegial style (not community colleges), see undergraduate teaching as the basis for faculty selection, evaluation, and rewards.

The resulting indirect effects suggest that personal satisfaction is reinforced if a faculty member resides in a community college, while faculty will be more dissatisfied at institutions with collegial governance systems.

(A4) The "Institutional Support" factor measures faculty perception of the amount of support for improving undergraduate education by board members, administrators, and faculty. As might be expected, this factor has a significant positive effect on personal satisfaction: The more support for undergraduate education from these sources, the better faculty members feel about their undergraduate teaching. The positive indirect effects of female faculty, faculty of higher rank, and faculty at institutions with

autonomous, rational, or collegial governance styles, further reinforce these faculty members' satisfaction with their teaching.

(A5) As with "Institutional Support", faculty in our survey said that the adequacy of their institutions' educational facilities also had a positive effect on "Personal Satisfaction with Teaching". The personal satisfaction of liberal arts and community college faculty and older faculty is reinforced because they are more satisfied with the educational facilities at their institutions. Tenured faculty, on the other hand, appear to be less satisfied. This is results from the negative effect of tenure on satisfaction with institutional facilities.

(A6, A7) We view "Institutional Satisfaction" and "Institutional Motivation and Commitment" as measures of morale because they are faculty observations of their peers. It may also be called "Faculty Climate." If faculty perceive morale in their institution to be high, they are more likely to be satisfied in all areas, including their teaching. Women faculty, community college faculty, faculty who perceive their institution's purpose to be instilling in students a sense of values, and those faculty in collegial, autonomous, and rational governance systems, are all more likely to perceive their colleagues as having high morale, and thus be more satisfied themselves. The magnitude of the indirect effects suggests that this intervening factor is a particularly strong indicator of "Personal Satisfaction with Teaching".

(B1) "Professionalism in the Academic Setting" includes faculty autonomy, trust between faculty and administrators, and freedom for new ideas. It has a significant positive effect on faculty

"Personal Motivation and Commitment to Undergraduate Education."
In our sample, female faculty and faculty at institutions perceived to have collegial, autonomous, and rational governance systems, are more motivated and committed because they are more likely to perceive professionalism in the academic setting.

(B2) "Institutional Support" predicts "Personal Motivation and Commitment" as well as "Personal Satisfaction with Teaching." Interestingly, the same exogenous variables predict both outcomes (see the discussion in A4).

(B3) The "Faculty Involvement with Student Academic Policies" factor includes decisions on assessment policies and support services policies, resource allocation relating to undergraduate education, and student recruitment policies. Faculty across the institutions in our sample, as defined by institutional purpose, are motivated by this kind of involvement. The indirect effects also show that community college, female, and older faculty are even more likely to be motivated toward undergraduate education. Tenured faculty are less motivated because they are significantly less likely to see themselves involved in student academic policies.

(B4) Female and community college faculty were significantly more likely to rate their peers' "Personal Motivation and Commitment" highly. As a result, since peer motivation is a significant predictor of personal motivation, these faculty are more highly motivated and committed to undergraduate education than they would be if they were male or at another type of institution

CONCLUSION

The most prominent faculty characteristic affecting perceptions of satisfaction, motivation, and commitment was gender (A4, A7, B1, B2, B3, and B4). Women consistently viewed their organizational environment more positively than their male counterparts, and so were more satisfied and motivated.

Clearly, the community colleges in our study were distinct from the liberal arts and comprehensive institutions in the way that culture and climate interacted to affect personal satisfaction, commitment, and motivation to undergraduate education (A2, A3, A5, A6, A7, B3, and B4). Further, faculty members who see their institutions as having collegial governance styles are more satisfied overall (A1, A3, A4, and A6) but these positive direct effects may be countered by negative indirect effects (A1 and A3). The fact that governance style (A1, A3, A4, A6, B1, and B2) was a significant indicator in predicting environmental characteristics is a reflection of the overall impact of governance style on institutional climate, and ultimately individual satisfaction and personal motivation and commitment to undergraduate teaching and learning.

We have attempted to provide a sense of the faculty responses to the "Organizational Climate Survey", and suggest some interpretations based on an analysis of indirect paths. The study also suggests some areas for further investigation. These include:

1. Why do female faculty members respond differently than their male counterparts?

2. What combinations of factors cause autonomous, rational, and collegially-governed institutions to significantly predict several intervening variables?
3. How is institutional uniqueness played out in the culture?
4. Can we define ways in which community college cultures differ from those in liberal arts and comprehensive institutions?

These questions, as well as other results of the study, suggest a framework for further investigation of institutional culture in higher education.

REFERENCES

- Apps, J. W. (1988) Higher Education in a Learning Society. San Francisco: Jossey-Bass Publishers.
- Ashforth, B. (1985) Climate formation: issues and extensions. Academy of Management Review, 10: 837 - 847.
- Astin, A. W.(1985). Achieving Education Excellence: A Critical Assessment of Priorities and Practices in Higher Education. San Francisco: Jossey-Bass Publishers.
- Blackburn, R. T., Lawrence, J. H., Ross, S. Okoloko, V. P., Bieber, J. P., Meiland, R., and Street, T. (1986). Faculty as a Key Resource. NCRIPTAL Technical Report. National Center for Research to Improve Postsecondary Teaching and Learning.
- Blai, B., Jr. (1975). Effective college teaching facilitates student thinking. College Student Journal, 9: 72 - 74.
- Bowen, H. R. (1977). Investment in Learning: The Individual and Social Value of American Higher Education. San Francisco: Jossey-Bass Publishers.
- Boyer, E. (1987). College: The Undergraduate Experience in America. New York: Harper & Row.
- Brewer, R. E. and Brewer, M. B. (1970). Relative importance of ten qualities for college teaching determined by peer comparison. Journal of Educational Research, 63: 246 - 253.
- Cameron, K. S. (1985). Institutional effectiveness in higher education: an introduction. The Review of Higher Education, 9 (1): 1 - 4.
- Cameron, K. S. and Whetton, D. A. (1984) Models of the Organizational life cycle: applications to higher education. In Bess, J. L. (Ed.). College and University Organization: Insights from the Behavioral Sciences. New York: New York University Press. 31 - 62.

- Chaffee, E. E. and Tierney, W. G. (1988). Collegiate Culture and Leadership Strategies. New York: American Council on Education/Macmillan Publishing Company.
- Czikszentmihalyi, M. (1982). Intrinsic motivation and effective teaching: a flow analysis. In Bess, J. L. (1982). Motivating Professors to Teach Effectively. No. 10. San Francisco: Jossey-Bass Publishers. 15 - 26.
- Deci, E. L. and Ryan, R. M. (1982). Intrinsic motivation to teach: possibilities and obstacles in our colleges and universities. In Bess, J. L. (1982). Motivating Professors to Teach Effectively. No. 10. San Francisco: Jossey-Bass Publishers. 27 - 35.
- Dill, D. D. (1982). The management of academic culture: notes on the management of meaning and social integration. Higher Education, 11: 303 - 320.
- Eble, K. E. (1983) The Aims of College Teaching. San Francisco : Jossey-Bass Publishers.
- Feldman, K. (1976). The superior college teacher from the students' view. Research in Higher Education, 5: 243 - 288.
- Feldman, K. (1988). Effective college teaching from the students' and faculty's view: matched or mismatched priorities? Research in Higher Education, 28 (4): 291 - 344.
- Ferris, G. and Gilmore, D. (1984). The moderating role of work context in job design research: a test of competing models. Academy of Management Journal, 27: 885 - 892.
- Floyd, C. E. (1985) Faculty Participation in Decision Making: Necessity or Luxury?. ASHE-ERIC Higher Education Report No. 8. Washington, D. C.: Association for the Study of Higher Education.
- Glick, W. H. (1985). Conceptualizing and measuring organizational and psychological climate: pitfalls in multilevel research. Academy of Management Review, 10: 601 - 616.

- 2-1
- Good, T. and Brophy, J. (1986). Teacher behavior and student achievement. In Wittrock, M. C. (Ed.). The Third Handbook of Research on Teaching. New York: Macmillan Publishing Company.
- Herzberg, F., Mauser, B. and Snyderman, B. (1959). The Motivation to Work. New York: Wiley Publishers.
- Hall, D. T. and Bazerman, M. H. (1982). Organizational design and faculty motivation to teach. In Bess, J. L. (1982). Motivating Professors to Teach Effectively, No. 10. San Francisco: Jossey-Bass Publishers. 71 - 84.
- Issler, K. (1983). A conception of excellence in teaching. Education, 103: 338 - 343.
- Kelly, J. G. (1988). Leadership behavior that produces a positive college climate: putting your energy in the right places. Paper presented at the Annual Conference of the Association of Canadian Community Colleges, New Brunswick, Canada.
- Kennedy, J. and Bush, A. (1976). Overcoming some impediments to the study of teacher effectiveness. Journal of Teacher Education, 27: 14 - 17.
- Lawrence, J. H. (1988). Faculty motivation and teaching. In Stark, J. S. and Mets, L. A., (Eds.). Improving Teaching and Learning Through Research, No. 57. San Francisco: Jossey-Bass Publishers. 53 - 64.
- National Center for Research to Improve Postsecondary Teaching and Learning, (NCRIPTAL) (1988). Organizational Climate for Teaching and Learning Survey.
- Nord, W. R. (1982). Behavior modification in a loosely coupled system: thoughts about motivating teacher performance. In Bess, J. L. (1982). Motivating Professors to Teach Effectively, No. 10. San Francisco: Jossey-Bass Publishers.

- Peterson, M. W. (1988). The organizational environment for teaching and learning. In Stark, J. S. and Mets, L. A., (Eds.). Improving Teaching and Learning Through Research. No. 57. San Francisco: Jossey-Bass Publishers. 23 - 38.
- Peterson, M. W. and Blackburn, R. (1985). Faculty effectiveness: meeting institutional needs and expectations. The Review of Higher Education, 9 (1): 21 - 34.
- Peterson, M. W., Cameron, K. S., Mets, L. A., Jones, P., and Ettington, D. (1986). The Organizational Context for Teaching and Learning: A Review of the Research Literature. National Center for Research to Improve Postsecondary Teaching and Learning.
- Schnake, M. (1983). An empirical assessment of the effects of affective response in the measurement of organizational climate. Personnel Psychology, 36; 791 - 807.
- Staw, B. M. (1984). Motivational research versus the art of faculty management. In Bess, J. L. (Ed.). College and University Organization: Insights from the Behavioral Sciences. New York: New York University Press. 63 - 84.
- Weick, K. E. (1984). Contradictions in a community of scholars: the cohesion - accuracy tradeoff. In Bess, J. L. (Ed.). College and University Organization: Insights from the Behavioral Sciences. New York: New York University Press. 15 - 30.

APPENDIX

FIGURE 2: THEORETICAL MODEL WITH VARIABLES/FACTORS

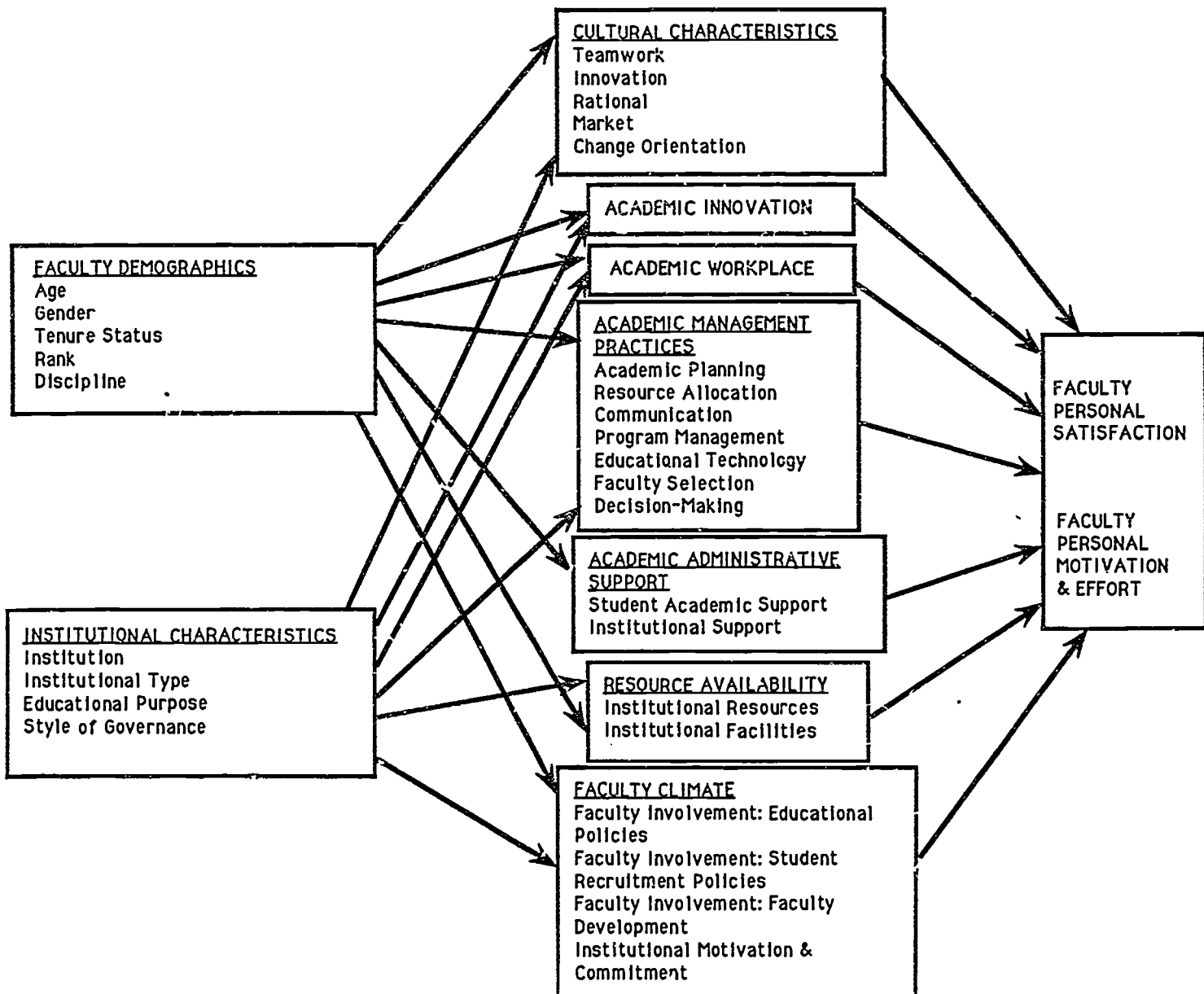


TABLE 1: Reliability of Indices

Survey Question No.	Index/Variable Label	Index Reliability	Survey Question No.	Index/Variable Label	Index Reliability
I. Academic Culture			II. Academic Innovation		
FACTOR 1	CULTURE: TEAMWORK	Alpha = .67	FACTOR 9	FACULTY AND INSTRUCTIONAL DEVELOPMENT	Alpha = .80
I - 1A	Characteristics: Loyalty, commitment		IV - 143	Teaching improvement	
I - 2A	Leadership: Mentor, sage, parent-figure		IV - 142	Faculty development	
I - 3A	Success: Development of human resources		IV - 144	Planning for faculty staffs	
I - 4A	Style: Teamwork, consensus, participation		FACTOR 10	FACULTY SELECTION, EVALUATION, AND REWARDS	Alpha = .83
FACTOR 2	CULTURE: INNOVATION	Alpha = .72	IV - 146	Faculty promotion based on teaching	
I - 1B	Characteristics: Meet challenges, take risks		IV - 148	Merit system based on teaching	
I - 2B	Leadership: Entrepreneur, innovator, risk-taker		IV - 147	Evaluation of teaching performance	
I - 3B	Success: Unique, cutting-edge outputs		IV - 145	Faculty selection based on teaching	
I - 4B	Style: Individual initiative, freedom, uniqueness		IV - 149	Recognition of outstanding teachers	
FACTOR 3	CULTURE: RATIONAL	Alpha = .75	FACTOR 11	STUDENT ACADEMIC SUPPORT SERVICES	Alpha = .75
I - 1C	Characteristics: Formal procedures, rules, policies; stability		IV - K52	Programs for minority students	
I - 2C	Leadership: Coordinator, organizer, efficiency expert		IV - K31	Student career counseling and programs	
I - 3C	Success: Efficiency, stability		IV - K50	Student enrichment programs	
I - 4C	Style: Security, longevity, predictability		IV - K53	Programs for "at risk" students	
FACTOR 4	CULTURE: MARKET	Alpha = .72	FACTOR 12	STUDENT ENTRY ASSESSMENT	Alpha = .82
I - 1D	Characteristics: Competition, production		IV - L55	Assessing entry-level college skills	
I - 2D	Leadership: A hard-driver, achiever, competitor		IV - L54	Assessing entry-level basic skills	
I - 3D	Success: Aggressively obtain advantage over peer schools		FACTOR 13	STUDENT OUTCOMES ASSESSMENT	Alpha = .81
I - 4D	Style: Hard-driving competitiveness		IV - L57	Assessing expectations, goals, attitudes	
II. Academic Innovation			IV - L58	Assessing learning outcomes or value added	
FACTOR 1	ACADEMIC INNOVATION	Alpha = .82	IV - L58	Assessing progress, retention, graduation rates	
II - 2	Innovation in Course Development		IV - L59	Assessing post-graduation performance	
II - 3	Innovation in Curricular Development		V. Faculty Motivation and Effort		
II - 4	Innovation in Teaching Methods		FACTOR 1	INSTITUTIONAL SATISFACTION WITH TEACHING	Alpha = .78
II - 5	Innovation in Systems of Delivery		V - 1	Satisfaction with work	
II - 6	Responsiveness to External Community		V - 2	Satisfaction with institution	
III. Academic Workplace			V - 3	Satisfaction with teaching performance	
FACTOR 1	CHALLENGE OF ACADEMIC WORK	Alpha = .83	FACTOR 2	INSTITUTIONAL COMMITMENT AND MOTIVATION	Alpha = .85
III - 9	Designing Meaningful T/L Activities		V - 4	Commitment to teaching	
III - 10	Designing Challenging T/L Activities		V - 5	Commitment to disciplines/professional fields	
III - 8	Opportunities for Growth		V - 6	Motivation to improve as teachers	
FACTOR 2	PROFESSIONALISM IN THE ACADEMIC SETTING	Alpha = .80	V - 7	Motivation to improve undergraduate education	
III - 1	Faculty Autonomy		FACTOR 3	PERSONAL SATISFACTION WITH TEACHING	Alpha = .65
III - 7	Fair Treatment		V - 8	Satisfaction with your work	
III - 3	Trust Among Faculty and Administrators		V - 9	Satisfaction with your institution	
III - 5	Tolerance for Diversity		V - 10	Satisfaction with your teaching performance	
III - 4	Freedom for New Ideas		FACTOR 4	PERSONAL COMMITMENT AND MOTIVATION	Alpha = .72
III - 6	Consistent Patterns of Decisions		V - 11	Commitment to teaching	
IV. Academic Management Climate			V - 12	Commitment to your discipline	
FACTOR 1	EDUCATIONAL MISSION AND GOALS	Alpha = .79	V - 13	Motivation to improve as a teacher	
IV - A4	Student Involvement in Learning		V - 14	Motivation to improve undergraduate education	
IV - A1	Mission and Goals for Undergrad Ed		V. Faculty Involvement		
IV - 12	Image of Commitment to Undergrad Ed		FACTOR 1	FACULTY INVOLVEMENT IN EDUCATIONAL POLICY	Alpha = .85
IV - A3	Undergraduate Teaching		VI - 11	New undergraduate faculty selection	
IV - A5	Student Learning Outcomes		VI - 2	Decisions on undergraduate policies	
IV - A8	General Education		VI - 5	Undergraduate curriculum development	
IV - A7	Discipline-Oriented Education		VI - 1	Academic planning for undergraduate education	
IV - A6	Professional/Career Education		VI - 12	Faculty promotion and evaluation	
FACTOR 2	ACADEMIC PLANNING	Alpha = .79	VI - 6	New program development	
IV - B10	Planning for Curriculum and Programs		FACTOR 2	FACULTY INVOLVEMENT IN STUDENT ACADEMIC POLICY	Alpha = .81
IV - B9	Institution Planning Process		VI - 4	Student recruitment policies	
IV - B12	Planning Reflecting External Trends		VI - 13	Decisions on support service policies	
IV - B13	Dissemination of Info on Trends		VI - 3	Resource allocation	
IV - B11	Planning at Academic Unit Level		VI - 14	Decisions on assessment policies	
FACTOR 3	GOVERNANCE	Alpha = .83	FACTOR 3	FACULTY INVOLVEMENT IN FACULTY DEVELOPMENT	Alpha = .82
IV - C15	Coordination on Academic Decisions		VI - 10	Teaching/learning workshops	
IV - C16	Implementing Decisions on Undergrad Ed		VI - 9	Institutional development	
IV - C14	Clear Decision Making Processes		VI - 8	Faculty development	
IV - C17	Mechanisms for Conflict		VI - 7	Use of educational technology	
IV - C18	Decentralization of Decision Making		VII. Academic Administrative Support		
FACTOR 4	RESOURCE ALLOCATION	Alpha = .83	FACTOR 1	INSTITUTIONAL ACADEMIC ADMINISTRATIVE SUPPORT	Alpha = .71
IV - D22	Rational Process for Resource Allocation		VII - 3	Deans and Department Chairs	
IV - D21	Equitable Allocation of Resources		VII - 2	President and Executive Officers	
IV - D20	Resources for Improving Undergrad Ed		VII - 4	Faculty Governance Bodies	
IV - D19	Resource Priority for Undergrad Ed		VII - 1	Board members	
IV - D23	Performance Data for Resource Allocation		VII - 5	Faculty	
FACTOR 5	COMMUNICATION/INFORMATION	Alpha = .79	FACTOR 2	STUDENT ACADEMIC ADMINISTRATIVE SUPPORT	Alpha = .82
IV - E26	Performance Data Used in Program Design		VII - 7	Students	
IV - E29	Dissemination of Info on T/L Issues		VII - 9	Student Support Units	
IV - E28	Data Used in Program Evaluation		VII - 8	Student Governance Bodies	
IV - E27	Use of Student Data in Teaching		VII - 8	Academic Support Units	
IV - E24	Discussion about Undergrad Education		VIII. Resource Availability		
IV - E25	Cross-Disciplinary Discussions on T/L		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
FACTOR 6	STUDENT RECRUITMENT AND ENROLLMENT MGT	Alpha = .68	VIII - 6	Instructional improvement	
IV - F30	Marketing and recruitment		VIII - 8	Faculty development	
IV - F35	Student retention		VIII - 10	Academic support services	
IV - F32	Student orientation and advising		VIII - 5	New undergraduate initiatives	
IV - F31	Coordination of marketing and planning		VIII - 11	Educational evaluation and research	
FACTOR 7	ACADEMIC CURRICULAR AND PROGRAMS MGT	Alpha = .79	VIII - 9	Student support services	
IV - G38	Process for reviewing existing programs		VIII - 7	Educational computing	
IV - G37	Process for developing new programs		VIII - 4	Faculty salaries	
IV - G34	Curriculum evaluation used in decision making		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
IV - G35	General education requirements		VIII - 3	Student study space	
IV - G36	Comprehensive exam requirement		VIII - 2	Library facilities	
FACTOR 8	EDUCATIONAL TECHNOLOGY	Alpha = .76	VIII - 1	Teaching and classroom facilities	
IV - H40	Use of other educational technology		IX. Resource Availability		
IV - H39	Use of educational computing		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
IV - H41	Incentives for use of educational technology		VIII - 6	Instructional improvement	
X. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XI. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XI. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XII. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XII. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XIII. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XIII. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XIV. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XIV. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XV. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XV. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XVI. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XVI. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XVII. Resource Availability		
VIII - 2	Library facilities		FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78
VIII - 1	Teaching and classroom facilities		VIII - 6	Instructional improvement	
XVII. Resource Availability			VIII - 8	Faculty development	
FACTOR 1	INSTITUTIONAL RESOURCES	Alpha = .78	VIII - 10	Academic support services	
VIII - 6	Instructional improvement		VIII - 5	New undergraduate initiatives	
VIII - 8	Faculty development		VIII - 11	Educational evaluation and research	
VIII - 10	Academic support services		VIII - 9	Student support services	
VIII - 5	New undergraduate initiatives		VIII - 7	Educational computing	
VIII - 11	Educational evaluation and research		VIII - 4	Faculty salaries	
VIII - 9	Student support services		FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67
VIII - 7	Educational computing		VIII - 3	Student study space	
VIII - 4	Faculty salaries		VIII - 2	Library facilities	
FACTOR 2	INSTITUTIONAL FACILITIES	Alpha = .67	VIII - 1	Teaching and classroom facilities	
VIII - 3	Student study space		XVIII. Resource Availability		
VIII - 2	Library facilities				

TABLE 2: Path Summaries for PERSONAL SATISFACTION Outcome

INTERVENING VARIABLES	EXOGENOUS VARIABLES	OUTCOME VARIABLES			
(A1)			SATISFACTION		
		CULTTEAM	DIRECT	INDIRECT	
Culture: Teamwork			-.095 *		
	Discipline	-.075 **	.020	.007	
	Institution	-.073 **	.008	.007	
	Purpose: Improving Society	.224 **	.059	-.021	+
	Purpose: Value	.192 **	.017	-.018	+
	Governance: Autonomy	.301 **	.050	-.029	+
	Governance: Collegial	.814 **	.077	-.058	+
	R Square	.370 **			
(A2)			SATISFACTION		
		CULTMRKT	DIRECT	INDIRECT	
Culture: Market			-.125 **		
	Institution	.155 **	.008	-.019	+
	Type: Community College	-.257 **	.018	.032	>
	Age	.111 **	.043	-.014	+
	R Square	.175 **			
(A3)			SATISFACTION		
		FACSEL	DIRECT	INDIRECT	
Faculty Selec, Eval, Reward			-.081 *		
	Institution	.207 **	.008	-.017	+
	Type: Community College	-.192 **	.018	.015	
	Tenure	-.110 **	.038	.009	
	Rank	.077 *	.003	-.008	+
	Governance: Collegial	.401 **	.077	-.032	+
	R Square	.322 **			
(A4)			SATISFACTION		
		INSTSUPP	DIRECT	INDIRECT	
Institutional Support			.109 **		
	Institution	.082 *	.008	.007	
	Gender	.118 **	.011	.013	>
	Rank	.081 *	.033	.009	
	Governance: Autonomy	.238 *	.050	.028	
	Governance: Formal/Rational	.295 *	.041	.032	
	Governance: Collegial	.523 **	.077	.057	
	R Square	.249 **			
(A5)			SATISFACTION		
		INSTFCIL	DIRECT	INDIRECT	
Institutional Facilities			.078 *		
	Institution	.248 **	.008	.019	>
	Type: Liberal Arts	.238 **	-.048	.019	+
	Type: Community College	.275 **	.018	.022	>
	Age	.191 **	.043	.015	
	Tenure	-.087 *	.038	-.007	+
	R Square	.248 **			
(A6)			SATISFACTION		
		INSTSATS	DIRECT	INDIRECT	
Institutional Satisfaction			.424 **		
	Type: Community College	.150 **	.018	.064	>
	Purpose: Value	.173 **	.017	.073	>
	Governance: Autonomy	.272 *	.050	.115	>
	Governance: Formal/Rational	.280 *	.041	.119	>
	Governance: Collegial	.492 **	.077	.209	>
	R Square	.247 **			
(A7)			SATISFACTION		
		INSTMOTV	DIRECT	INDIRECT	
Institutional Motiv & Commit			.081 *		
	Type: Community College	.101 **	.018	.008	
	Gender	.083 **	.011	.007	
	R Square	.137 **			
Overall R SQUARE for Personal Satisfaction outcome: .492**					

* p<.05

** p<.01

TABLE 3: Path Summaries for PERSONAL MOTIVATION AND COMMITMENT Outcome

INTERVENING VARIABLES	EXOGENOUS VARIABLES	OUTCOME VARIABLES		
(B 1)		MOTIVATION & COMMITMENT		
Professionalism in Acad Workplace	ACADSETT	DIRECT	INDIRECT	
		.108 *		
Gender	.085 **	.053	.009	
Governance: Autonomy	.272 *	-.065	.029	- +
Governance: Formal/ Rational	.311 *	-.057	.034	- +
Governance: Collegial	.501 **	-.048	.054	- +
R Square	.262 **			
<hr/>				
(B 2)		MOTIVATION & COMMITMENT		
Institutional Support	INSTSUPP	DIRECT	INDIRECT	
		.153 **		
Institution	.082 *	-.023	.010	- +
Gender	.118 **	.053	.018	
Rank	.081 *	.003	.012	>
Governance: Autonomy	.238 *	-.085	.038	- +
Governance: Formal/ Rational	.295 *	-.057	.045	- +
Governance: Collegial	.523 **	-.043	.080	- +
R Square	.249 **			
<hr/>				
(B 3)		MOTIVATION & COMMITMENT		
Faculty Involvement with Stu Acad Policy	FINSTUPL	DIRECT	INDIRECT	
		.097 *		
Institution	.107 **	-.023	.010	- +
Type: Community College	.187 **	-.007	.018	- +
Gender	.116 **	.051	.011	
Tenure	-.125 **	-.036	-.012	
Age	.082 *	-.012	.008	- +
Purpose: Thinking	.188 **	-.015	.018	- +
Purpose: Knowledge	.188 **	.034	.018	
Purpose: Improvement	.209 **	-.018	.020	- +
Purpose: Values	.154 *	-.025	.015	- +
R Square	.209 **			
<hr/>				
(B 4)		MOTIVATION & COMMITMENT		
Inst. Motivation & Commitment	INSTMOTV	DIRECT	INDIRECT	
		.401 **		
Type: Community College	.101 **	-.007	.040	- +
Gender	.083 **	.053	.033	
R Square	.137 **			

Overall R SQUARE for Personal Motivation and Satisfaction outcome: .307**

* p<.05

** p<.01